



DEPARTMENT of ENVIRONMENT and NATURAL RESOURCES  
Minerals & Mining Program - Oil & Gas Section  
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FORM 2

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APR 05 2004

DEPT OF ENVIRONMENT & NATURAL  
RESOURCES - RCRO

## APPLICATION FOR PERMIT TO DRILL

Type of work:		Type of well:			
<input checked="" type="checkbox"/> Drill New Well	<input type="checkbox"/> Reenter Well	<input checked="" type="checkbox"/> Drill Directional Well	<input checked="" type="checkbox"/> Oil Well	<input type="checkbox"/> Gas Well	<input type="checkbox"/> Injection
Other _____		<input checked="" type="checkbox"/> Other <u>Horizontal</u>			
Name and Address of Operator:					Telephone
LUFF EXPLORATION COMPANY 1580 LINCOLN ST. SUITE 850 DENVER, CO					303-861-2468
Name and Address of Surface Owner:					
LeRoy Abrahamson & Douglas A. Abrahamson RR1 Box 114 Bowman, ND 58623					
Name and Address of Drilling Contractor and Rig Number:					
Nabors Drilling USA, Williston, ND Rig No. 42 and C&H Well Service, Gillette, WY					
Surface Location of well: Qtr-Qtr, Sec, Twp, Rge, County, feet from nearest lines of section, and latitude and longitude (if available):					
SESE Sec. 19-23N-6E, Harding Co. 1000' FSL & 240' FEL					
If Directional, top of pay and bottom hole location from nearest lines of section:					
9095'MD=9036'TVD, NE leg 2000' FSL & 2640' FEL Sec. 20: NW leg 9100'MD=9036'TVD 2000' FSL & 2000' FSL Sec. 19					
Acres in Spacing (Drilling) Unit			Description of Spacing Unit		
824			All of Sec. 19 and Sec. 20		
Well Name and Number		Elevation	Field and Pool, or Wildcat		Proposed Depth and Formation
Abrahamson P-19H		2964.8' Grd Un-graded	East Harding Springs		Red River B; NE leg 12,040'MD=9036'TVD NW leg 12,187'MD=9036' TVD
Size of Hole	Size of Casing	Weight per Foot	Depth	Cementing Program (amount, type, additives)	Depth
1) 12 1/4	8 5/8	24	2000	535 sx LitePoz and 175 sx G	Surface
2) 7 7/8	5 1/2	15.5, 17, .23	9100	1 <sup>st</sup> stage 400 sx G, 2 <sup>nd</sup> stage 500 sx Lite & 700 sx G	4500'
3)					
4)					
Describe Proposed Operations (Clearly State all Pertinent Details, and Give Pertinent Dates, Including Estimated Date of Starting any Proposed Work). Use additional page(s) if appropriate.					
Drill a vertical well to 9100'. DST the Red River B zone and run open hole logs at TD. Run and cement 5 1/2" csg to TD. Move in smaller rig and mill csg. window from 8924'-31' w/azimuth of 71 deg. Drill short radius curve and land in Red River B fm @ 9095'MD=9036'TVD. Drill 4 1/2" horizontal in B zone to TD 12040'MD=9036'TVD to BHL 2000' FSL & 2640' FWL of Sec. 20. Mill second csg. window from 8912'-8919' w/azimuth of 288 deg. Drill short radius curve and land in Red River B @ 9100'MD=9036'TVD. Drill 4 1/2" horizontal lateral in B zone to BHL 2000' FSL & 2000' FWL of Sec. 19. See attached directional drilling plan. Oil base mud will be used for the vertical hole and fresh water/polymer fluid will be used for drilling horizontally. All drilling fluids will be contained in a 12 mil lined pit. Cuttings and pit liner will be buried in place. Well will be completed through open hole. Anticipated starting date -5- 10-04.					
I hereby certify that the foregoing as to any work or operation performed is a true and correct report of such work or operation.					
Signature		Name (Print)		Title	Date
<u>Robert C. Arceneaux</u>		Robert C. Arceneaux		Operations Mgr.	3-30-04

### FOR OFFICE USE ONLY

Approved By: <u>[Signature]</u>	Title: <u>Oil &amp; Gas Supervisor</u>
Permit No. <u>1708</u>	API No. <u>40 063 20580</u>
Date Issued: <u>04/19/2004</u>	
Conditions, if any, on attached page.	